Report Date: January 13, 2016

Total SGCN: 1: 20

Level 1 Threat Residential and Commercial Development

Level 2 Threat: Commercial and Industrial Areas

Description: Factories and other commercial centres

Species Associated With This Stressor:

Class Actinopterygii (Ray-finned Fishes) **SGCN Category** Species: Alosa pseudoharengus (Alewife) 2 Actionability: Moderately actionable **Severity:** Moderate Severity Notes: Armored shores decrease available forage and over-winter habitat. Spatial extent is fairly low (confined to a few areas), but is substantial in those areas. Species: Alosa sapidissima (American Shad) 1 Severity: Severe Actionability: Actionable with difficulty Notes: Armored shores decrease available spawning, forage and over-winter habitat. Spatial extent is fairly low (confined to a few areas), but is substantial in those areas. Species: Acipenser oxyrinchus (Atlantic Sturgeon) 1 Severity: Severe Actionability: Actionable with difficulty Notes: Armored shores decrease available forage and over-winter habitat. Spatial extent is fairly low (confined to a few areas), but is substantial in those areas. Species: Alosa aestivalis (Blueback Herring) 1 Actionability: Moderately actionable **Severity:** Moderate Severity Notes: Armored shores decrease available forage and over-winter habitat. Spatial extent is fairly low (confined to a few areas), but is substantial in those areas. Species: Osmerus mordax (Rainbow Smelt) 1 **Severity:** Moderate Severity Actionability: Moderately actionable Notes: Armored shores decrease available forage and over-winter habitat. Spatial extent is fairly low (confined to a few areas), but is substantial in those areas. Species: Acipenser brevirostrum (Shortnose Sturgeon) 1 Actionability: Actionable with difficulty Severity: Severe Notes: Armored shores decrease available forage and over-winter habitat. Spatial extent is fairly low (confined to a few areas), but is substantial in those areas. Class **SGCN Category** Amphibia (Amphibians) Species: Ambystoma laterale (Blue-spotted Salamander) Actionability: Moderately actionable **Severity:** Moderate Severity Notes: Loss and degradation of vernal pools and pocket swamps and the surrounding critical terrestrial habitat, especially in southern and central ME **Class SGCN Category** Aves (Birds) Species: Ammodramus savannarum (Grasshopper Sparrow) 1 **Severity:** Moderate Severity Actionability: Highly actionable Notes: Airfield management practices Species: Ardea herodias (Great Blue Heron) 2 **Severity:** Moderate Severity Actionability: Moderately actionable Notes: Disturbance associated with human activity in developed areas can cause colony abandonment.

Actionability: Moderately actionable

Notes: Protect important nesting and foraging habitat from residential and commercial development.

Species: Falco peregrinus (Peregrine Falcon)

Severity: Moderate Severity

1

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Class	Aves	(Birds)		SGCN Category		
Species: Calidris pusilla (Semipalmated Sandpiper)						
	Severity:	Moderate Severity	Actionability: Moderately actionable			
Notes: Habitat loss from development can be mitigated through environmental permit review.						
Species: E	Bartramia longico	auda (Upland Sandpiper)		1		
	Severity:	Moderate Severity	Actionability: Moderately actionable			
		Airfield mowing practices				
Species: F	Hylocichla mustel	<i>lina</i> (Wood Thrush)		1		
	•	Moderate Severity	Actionability: Moderately actionable			
	Notes:	Habitat loss and or fragment	ation to development			
Class	Bival	lvia (Marine And Freshv	vater Molluscs)	SGCN Category		
Species: Alasmidonta varicosa (Brook Floater)						
	Severity:	Moderate Severity	Actionability: Moderately actionable			
	Notes:		t canopy is lost or degraded and/or water quality i directly impacts stream bottom and/or water qual			
Species: L	Leptodea ochrace	(Tidewater Mucket)		1		
	Severity:	Moderate Severity	Actionability: Moderately actionable			
	Notes:	•	t canopy is lost or degraded and/or water quality i directly impacts stream bottom and/or water qual	· ·		
Species: L	Lampsilis cariosa	(Yellow Lampmussel)		1		
Species: L		(Yellow Lampmussel) Moderate Severity	Actionability: Moderately actionable	1		
Species: L	Severity:	Moderate Severity In riparian zone where fores	t canopy is lost or degraded and/or water quality i	s impacted; in stream bed		
	Severity: Notes:	Moderate Severity In riparian zone where fores where increased access/use	•	s impacted; in stream bed ity		
Species: <i>L</i>	Severity: Notes:	Moderate Severity In riparian zone where fores	t canopy is lost or degraded and/or water quality i	s impacted; in stream bed ity		
Class	Severity: Notes: Insec	Moderate Severity In riparian zone where fores where increased access/use ta (Insects) ta (A Noctuid Moth)	t canopy is lost or degraded and/or water quality i directly impacts stream bottom and/or water qual	s impacted; in stream bed ity		
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Level 1 Threat Residential and Commercial Development

Level 2 Threat: Commercial and Industrial Areas

Class	Inse	cta (Insects)		SGCN Category	
Sp	ecies: Satyrium edward	l sii (Edwards' Hairstreak)		2	
- 1		Moderate Severity	Actionability: Moderately actionable		
	•		n ME where loss and fragmentation to development is on	-going	
Sp	ecies: Callophrys hessel	i (Hessel's Hairstreak)		1	
·	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	At least one site is proximate	to commercial development		
Sp	Species: Bombus insularis (Indiscriminate Cuckoo Bumble Bee)				
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Habitat loss and fragmentation	on		
Sp	ecies: Zanclognatha ma	a rtha (Pine Barrens Zanclogna	tha)	1	
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Habitat loss and fragmentation	on; pine barren habitat is prime land for development in s	outhern ME	
Sp	ecies: Citheronia sepulc	ralis (Pine Devil)		2	
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Habitat loss and fragmentation	on; pine barren habitat is prime land for development in s	outhern ME	
Sp	ecies: Psectraglaea cari	nosa (Pink Sallow)		2	
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Habitat loss and fragmentation	on; pine barren habitat is prime land for development in s	outhern ME	
Sp	ecies: Bombus affinis (Rusty-patched Bumble Bee)		1	
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Habitat loss and fragmentation	on		
Sp	ecies: Erynnis brizo (Sle	epy Duskywing)		2	
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Habitat restricted to souther	n ME where loss and fragmentation to development is on	-going	
Sp	ecies: Lycia rachelae (T	wilight Moth)		2	
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Habitat loss and fragmentation	on; pine barren habitat is prime land for development in s	outhern ME	
Class	SGCN Categor				
Species: Sylvilagus transitionalis (New England Cottontail)					
	Severity:	Moderate Severity	Actionability: Moderately actionable		
	Notes:	NEC can exist in industrial are	eas if shrub habitat is maintained. However, management	of this land is	
			intentionally to benefit NEC. Currently, industrial develop	ment is occurring	
Class	May	<u> </u>	lead to further loss of habitat.	SCCN Catagor	
		ostomata (Horseshoe Cr	abs And Sea Scorpions)	SGCN Categor	
Sp	ecies: Limulus polyphen		A second	1	
	•	Moderate Severity	Actionability: Moderately actionable		
	Notes:	Spatial extent is fairly low (co	ailability of mating, egg-laying, larval development, and fonfined to a few areas), but is substantial in those areas. A ized in newly developing areas.		
Class	Rent	ilia (Reptiles)		SGCN Categor	
	пері	ma (neptiles)		July Categor	

Level 1 Threat Residential and Commercial Development

Level 2 Threat: Commercial and Industrial Areas

Class Reptilia (Reptiles) SGCN Category

Species: Emydoidea blandingii (Blanding's Turtle)

1

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Severity: Severe Actionability: Moderately actionable

Notes: Habitat loss, degradation, and fragmentation from development and increased human activity

Species: *Thamnophis sauritus* (Eastern Ribbon Snake)

2

Severity: Moderate Severity Actionability: Moderately actionable

Notes: Habitat loss and fragmentation from development

Species: Coluber constrictor constrictor (Northern Black Racer)

1

Severity: Severe Actionability: Moderately actionable

Notes: Habitat loss from development and associated fragmentatation and anthropogenic activities are

substantial threats

Species: Clemmys guttata (Spotted Turtle)

1

Severity: Severe Actionability: Moderately actionable

Notes: Habitat loss, degredation, and fragmentation from development and increased human activity

Habitats Associated With This Stressor:

Macrogroup Agricultural

Habitat System Name: Pasture-Hay

Notes: Development of farmland higher in southern, central, and coastal ME; industrial development probably lower stressor

than residential

Macrogroup Boreal Upland Forest

Habitat System Name: Acadian Low Elevation Spruce-Fir-Hardwood Forest

Notes: Impacts likely lower than forest types in southern and central ME

Habitat System Name: Acadian Sub-boreal Spruce Flat

Notes: Impacts likely lower than forest types in southern and central ME

Habitat System Name: Acadian-Appalachian Montane Spr-Fir-Hwd Forest

Notes: Impacts likely lower than forest types in southern and central ME

Habitat System Name: Boreal Jack Pine-Black Spruce Forest

Notes: Impacts likely lower than forest types in southern and central ME

Macrogroup Central Hardwood Swamp

Habitat System Name: North-Central Interior Wet Flatwoods

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Macrogroup Central Oak-Pine

Habitat System Name: Central Appalachian Dry Oak-Pine Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; Central Oak Pine had

among the higest rates of predicted development in Anderson et al (2013(

Habitat System Name: Central Appalachian Pine-Oak Rocky Woodland

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; Central Oak Pine had

among the higest rates of predicted development in Anderson et al (2013)

Habitat System Name: North Atlantic Coastal Plain Hardwood Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; Central Oak Pine had

among the higest rates of predicted development in Anderson et al (2013(

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Macrogroup Central Oak-Pine

Habitat System Name: North Atlantic Coastal Plain Maritime Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; Central Oak Pine had

among the higest rates of predicted development in Anderson et al (2013(

Habitat System Name: Northeastern Interior Pine Barrens

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; Central Oak Pine had

among the higest rates of predicted development in Anderson et al (2013)

Macrogroup Coastal Grassland & Shrubland

Habitat System Name: Northern Atlantic Coastal Plain Dune and Maritime Grassland

Notes: Many dunes have been and continue to be impacted, despite some legal protections

Habitat System Name: Northern Atlantic Coastal Plain Sandy Beach

Notes: Many dunes have been and continue to be impacted, despite some legal protections

Macrogroup Coastal Plain Peat Swamp

Habitat System Name: North Atlantic Coastal Plain Basin Peat Swamp

Notes: Many AWC Swamps are conserved, but those in private ownership remain vulnerable due to relatively high development

in southern and coastal ME

Macrogroup Emergent Marsh

Habitat System Name: Laurentian-Acadian Freshwater Marsh

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Macrogroup Glade, Barren and Savanna

Habitat System Name: Central Appalachian Alkaline Glade and Woodland

Notes: Many areas have been conserved, but private lands remain vulnerable to development

Macrogroup Intertidal Gravel Shore

Habitat System Name: High Intertidal

Notes: Shoreline development can introduce foot and vehicle traffic, pets, noise, light, and trash that can degrade habitat area

and functions

Habitat System Name: Lower Intertidal

Notes: Shoreline development can introduce foot and vehicle traffic, pets, noise, light, and trash that can degrade habitat area

and functions

Habitat System Name: Mid-Intertidal

Notes: Shoreline development can introduce foot and vehicle traffic, pets, noise, light, and trash that can degrade habitat area

and functions

Macrogroup Intertidal Sandy Shore

Habitat System Name: Sand Beach

Notes: Shoreline development can introduce foot and car traffic, pets, noise, light, and trash that can degrade habitat area and

functions

Habitat System Name: Sand Flat

Notes: Shoreline development can introduce foot and car traffic, pets, noise, light, and trash that can degrade habitat area and

functions

Habitat System Name: Submerged Aquatic Vegetation

Notes: Shoreline development can introduce foot and car traffic, pets, noise, light, and trash that can degrade habitat area and

functions

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Macrogroup Intertidal Tidal Marsh (peat-forming)

Habitat System Name: Acadian Coastal Salt Marsh

Notes: Runoff from adjacent development may add excess nutrients, sediment, heavy metals, etc.

Habitat System Name: Coastal Plain Tidal Marsh

Notes: Runoff from adjacent development may add excess nutrients, sediment, heavy metals, etc.

Macrogroup Northeastern Floodplain Forest

Habitat System Name: Laurentian-Acadian Floodplain Systems

Notes: Floodplain forests (and adjacent uplands) had relatively high predicted development rates in Anderson et al (2013)

Macrogroup Northern Hardwood & Conifer

Habitat System Name: Appalachian (Hemlock)-Northern Hardwood Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME

Habitat System Name: Laurentian-Acadian Northern Hardwoods Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME

Habitat System Name: Laurentian-Acadian Pine-Hemlock-Hardwood Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME

Habitat System Name: Laurentian-Acadian Red Oak-Northern Hardwood Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME

Habitat System Name: Northeastern Coastal and Interior Pine-Oak Forest

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME

Macrogroup Northern Swamp

Habitat System Name: Acadian-Appalachian Conifer Seepage Forest

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Habitat System Name: Laurentian-Acadian Alkaline Conifer-Hardwood Swamp

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Habitat System Name: North-Central Appalachian Acidic Swamp

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Habitat System Name: North-Central Interior and Appalachian Rich Swamp

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Habitat System Name: Northern Appalachian-Acadian Conifer-Hardwood Acidic Swamp

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Macrogroup Outcrop & Summit Scrub

Habitat System Name: Laurentian-Acadian Calcareous Rocky Outcrop

Notes: cellphone and other tower development

Habitat System Name: Northern Appalachian-Acadian Rocky Heath Outcrop

Notes: cellphone and other tower development

Macrogroup Rivers and Streams

Habitat System Name: Ephemeral

Notes: Impacts likely, but hard to quantify since most ephemeral streams are not mapped

Habitat System Name: Headwaters and Creeks

Notes: Impacts likely, but hard to quantify since most ephemeral streams are not mapped

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Macrogroup Rivers and Streams

Habitat System Name: Small River

Macrogroup Ruderal Shrubland & Grassland

Habitat System Name: Introduced Shrubland

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; reverting fields are

probably more at risk than blueberry barrens

Habitat System Name: Powerline Right-of-Way

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; reverting fields are

probably more at risk than blueberry barrens

Habitat System Name: Ruderal Upland - Old Field

Notes: Industrial/commercial development rates highest in urban/suburban areas of southern/coastal ME; reverting fields are

probably more at risk than blueberry barrens

Macrogroup Wet Meadow-Shrub Marsh

Habitat System Name: Introduced Wetland and Riparian Vegetation

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

Habitat System Name: Laurentian-Acadian Wet Meadow-Shrub Swamp

Notes: Most future impacts associated with secondary effects including runoff, landscape context etc.

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The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.